

Rising Math 7 Students

NAME: _____ MATH PERIOD: ___ TEAM: _____ Elementary School: _____

Please complete the packet over the summer and return to your Math 7 teacher the first week of class.

NO CALCULATOR, please.

SHOW ALL WORK WHEN POSSIBLE!

DO YOU KNOW YOUR MULTIPLICATION TABLES FROM 1-12?



The list of websites below contains tutorials, practice, and quizzes on these topics and more.

<http://www.regentsprep.org>

<http://www.math.com>

<http://library.thinkquest.org>

<http://www.mathgoodies.com/lessons.toc-vol.shtm>

<http://education.jlab.org/solquiz/>

REMINDER: No Calculator, please.

Updated Spring 2009 K. Iaquina

Part 1 Comparing and Rounding Decimals

Compare the decimals. Circle the greatest decimal in each group.

1. 3.5, 3.48, 3.42
2. 15.03, 15.3, 15.00
3. 19.16, 14.9, 19.4
4. 23.905, 25.2, 23.56

Identify the place value of the underlined digit. Then round each decimal to the indicated place.

5. 15.794
6. 121.58
7. 0.5324
8. 6.4362
9. 6.2679
10. 7.834172

Part 2 Adding Whole Numbers and Decimals

Estimate. Then add to find the exact sum.

11. 384 + 218
12. 4,321 + 5,262
13. 98.25 + 69.80
14. 9.281 + 8.21
15. 4.65 + 7.46

Compare. Use < or > for each O.

16. $2.71 + 0.5605$ O 3
17. 14 O $2.97 + 12.4$

18. $47 + 59 \bigcirc 110$
 19. $0.1 \bigcirc 0.01 + 0.059$
 20. $66 + 72 \bigcirc 145$

Part 3 **Subtracting Whole Numbers and Decimals**

Estimate each answer first. Then subtract.

21. $596 - 258$
 22. $6.90 - 0.35$
 23. $1.482 - 1.310$
 24. $142.5 - 87.6$
 25. $5.281 - 0.130$

Complete each input/output table.

26. Rule: Subtract 0.479

Input	Output
4.2	_____
16.3	_____
_____	9.25
_____	12.7

27. Rule: Add 14.5

Input	Output
14.05	_____
_____	32.109
5.1	_____
_____	19.001

Part 4 **Multiplying Decimals**

Find each product.

28. 28×6
 29. $7.3 \cdot 0.9$
 30. $58 \cdot 2.1$
 31. $15(187)$
 32. 6.6×25
 33. $(1.8)(0.7)$
 34. $0.91 \cdot 2.7$
 35. $4.6(3.9)$

Solve.

36. Al's Car Rental charges \$122.50 for a 5-day rental and then \$27.50 for each additional day. Dave's Car Rental charges a flat rate of \$26.25 per day. Which company charges less for a 7-day car rental?

37. Anna works in a department store and earns \$7.60 per hour. Last week she worked 39.5 hours. How much money did she earn for the week?

Part 5 **Dividing Decimals**

Circle A, B, or C. Estimate each quotient. Choose the best answer.

- 38.** $10 \div 4.6$ A. 0.23 B. 2.3 C. 33
- 39.** $9.9 \div 2.7$ A. 40 B. 4 C. 0.37
- 40.** $43.68 \div 7.8$ A. 6 B. 60 C. 0.56
- 41.** $65.29 \div 8.5$ A. 80 B. 72 C. 8

Solve.

42. Alicia paid \$1.32 for a bag of pinto beans. The beans cost \$0.55 per lb. How much did the bag of pinto beans weigh?

43. Nina and 3 friends ate lunch at a cafe. They decided to split the bill evenly. The total bill was \$17.84. How much was each person's share?

Part 6 **Adding/Subtracting Fractions**

Find three fractions equivalent to the following fraction.

44. $\frac{2}{3} =$

Add or Subtract. Simplify your answer.

45. $\frac{5}{8} + \frac{1}{4}$

46. $\frac{8}{9} - \frac{5}{6}$

Add or Subtract. Simplify your answer.

47. $11\frac{3}{4} + 8\frac{2}{3}$

48. $11 - 3\frac{5}{9}$

49. Ms. Yen works 10 months out of 12 each year. Give two fractions that represent the fraction of a year she works.

50. During a one-hour (60 minute) practice, Calvin shot free throws for 15 minutes. What fraction of an hour did he shoot free throws? Express your answer in simplest form.

51. In 4 days, 6 inches of rain fell. What was the average daily rainfall?

52. Brandon spent $\frac{1}{4}$ of his study time studying math and $\frac{1}{6}$ of his time studying history. How much of his study time did he spend studying math and history?

53. A park ranger takes a group of campers on a $5\frac{1}{2}$ mile hike. They have already hiked $2\frac{1}{3}$ miles. How far do they have yet to hike?

Part 7 **Multiply/Divide Fractions**

Find each answer. Simplify all answers if necessary.

54. $\frac{8}{9} \cdot \frac{4}{5}$

55. $\frac{3}{20} \cdot 16$

56. $\left(4\frac{1}{3}\right)\left(\frac{9}{10}\right)$

57. $\frac{2}{3} \div \frac{1}{4}$

58. $8 \div \frac{2}{3}$

59. $\left(1\frac{2}{3}\right) \div \left(\frac{1}{5}\right)$

MEMORIZE the FAMOUS FIFTEEN

Equivalent Fractions, Decimals, & Percents

Fraction	Decimal	Percent
$\frac{1}{5}$	0.2	20%
$\frac{2}{5}$	0.4	40%
$\frac{3}{5}$	0.6	60%
$\frac{4}{5}$	0.8	80%
$\frac{1}{4}$	0.25	25%
$\frac{2}{4}$ or $\frac{1}{2}$	0.5	50%
$\frac{3}{4}$	0.75	75%
$\frac{1}{8}$	0.125	12.5% or $12\frac{1}{2}\%$
$\frac{3}{8}$	0.375	37.5% or $37\frac{1}{2}\%$
$\frac{5}{8}$	0.625	62.5% or $62\frac{1}{2}\%$
$\frac{7}{8}$.875	87.5% or $87\frac{1}{2}\%$
$\frac{1}{6}$	$0.1\bar{6}$	$16.\bar{6}\%$ or $16\frac{2}{3}\%$
$\frac{2}{6}$ or $\frac{1}{3}$	$0.\bar{3}$	$33.\bar{3}\%$ or $33\frac{1}{3}\%$
$\frac{4}{6}$ or $\frac{2}{3}$	$0.\bar{6}$	$66.\bar{6}\%$ or $66\frac{2}{3}\%$
$\frac{5}{6}$	$0.8\bar{3}$	$83.\bar{3}\%$ or $83\frac{1}{3}\%$

Please remember that $\frac{1}{1}$ is 1 which is 100%

Part 8 Integers

Use an integer to describe each situation.

60. 32° above zero +32
61. 10° below zero _____
62. earning \$3 _____
63. spending \$6 _____
64. finding a quarter _____
65. losing a nickel _____
66. climbing up the ladder 10 feet _____
67. sliding down the slide 10 feet _____
68. a city 600 feet above sea level _____

Part 9 **Comparing and Ordering Integers**

Think about having or owing money to compare. Use $>$, $<$, or $=$.

69. $+5$ -2
have \$5 owe \$2

70. $+7$ $+1$

71. -6 0
owe \$6 owe nothing

72. -3 $+3$

73. -5 -7
owe \$5 owe \$7

74. -2 0

75. $+8$ 0

76. -4 -4

77. -2 -3

78. 4 2

79. -3 -2

80. 3 -4

81. -1 -2

82. 0 5

83. 0 -4

84. -6 4

Order from least to greatest.

85. $-10, +30, -30, 0$

86. $-12, -14, -6, -8$

Use the number line below. Write the integers in order from least to greatest.

87. $-4, 5, -2, 0, 1$ \leftarrow | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | \rightarrow

88. $6, -3, -5, 4, -6$ \leftarrow | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | \rightarrow

89. $3, -5, 4, -4, -7, 0$ \leftarrow | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | \rightarrow

90. $1, 3, -7, -6, 5, -2$ \leftarrow | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | \rightarrow